

AMENDMENTS TO THE CLAIMS:

Please replace all prior listings of claims with that which appears below, in which Claims 4-5, 15-19, 22-24 and 28-33 have been cancelled (without prejudice or disclaimer of that which is defined thereby):

1. (Original) A UV curable coating composition reaction products of which are abrasion resistant, comprising:

at least one curable (meth)acrylate;

at least one photoinitiator which absorbs only in the UV range of the electromagnetic spectrum; and

an inorganic filler, at least a portion of which having a particle size in the range of 1 to 1,000 nm, wherein said coating is capable of maintaining about 95% of its post-cure gloss when subjected to about 100 cycles of grade 3 steel wool with a load of about 50 lbs applied per Federal Specification FF-W-1825.

2. (Original) The UV curable coating composition according to claim 1, wherein the particle size of said inorganic filler is less than about 50 nm.

3. (Original) The UV curable coating composition according to claim 1, wherein said at least one curable (meth)acrylate is

selected from the group consisting of: urethane (meth)acrylates; polybutadiene (meth)acrylates; trimethylolpropane triacrylate; hexanediol diacrylate; alkoxyated hexanediol diacrylate; hydroxyl-bearing polyacrylate; hydroxyl double bond bearing polyester; tris (2-hydroxy ethyl) isocyanurate triacrylate; ethoxylated pentaerythritol tetraacrylate; and combinations thereof.

Claims 4-5. (Cancelled)

6. (Original) The UV curable coating composition according to claim 1, wherein said at least one photoinitiator absorbs at wavelengths of about 333 nm or shorter.

7. (Original) The UV curable coating composition according to claim 1, wherein said inorganic filler comprises colloidal silica nanoparticles.

8. (Original) The UV curable coating composition according to claim 7, wherein said colloidal silica nanoparticles have a particle size of less than about 50 nm.

9. (Original) The UV curable coating composition according to claim 1, wherein said inorganic filler comprises silica

particles which are spherical, non-porous, amorphous, non-agglomerated and monodispersed, said silica particles having a particle size in the range of about 10 nm to about 50 nm.

10. (Original) The UV curable coating composition according to claim 9, wherein said silica particles are present in an amount of about 30% to about 50% by weight of said composition.

11. (Original) The UV curable coating composition according to claim 1, further comprising a reactive diluent.

12. (Original) The UV curable coating composition according to claim 11, wherein said reactive diluent is N,N-dimethyl acrylamide.

13. (Original) The UV curable coating composition according to claim 1, further comprising at least one light stabilizer.

14. (Original) The UV curable coating composition according to claim 13, wherein said at least one light stabilizer is selected from the group consisting of hindered amine light stabilizers, hydroxyphenyltriazines, hydroxybenzotriazoles, and combinations thereof.

Claims 15-19. (Cancelled)

20. (Original) The UV curable coating composition according to claim 1, wherein said inorganic filler is present in an amount between about 30% and about 50% by weight of said curable (meth)acrylate.

21. (Original) The UV curable coating composition according to claim 11, wherein:

said at least one curable (meth)acrylate comprises trimethylolpropane triacrylate present in an amount between about 5% and about 85% by weight of said composition; and

said at least one reactive diluent comprises dimethyl acrylamide present in an amount between about 1% and about 30% by weight of said composition.

Claims 22-24. (Cancelled)

25. (Original) A UV curable, abrasion resistant coating composition, comprising:

a nanospheric colloidal dispersion of silica in a (meth)acrylate matrix;

at least one reactive diluent; and

at least one photoinitiator which absorbs only in the UV range of the electromagnetic spectrum.

26. (Original) The UV curable coating composition according to claim 25, wherein said coating is capable of maintaining about 95% of its post-cure gloss when subjected to about 100 cycles of grade 3 steel wool with a load of about 50 lbs applied per Federal Specification FF-W-1825.

27. (Original) An abrasion resistant coated road reflector, comprising:

a road reflector having at least one surface, said surface having a coating thereon which comprises the reaction product of:

at least one curable (meth)acrylate;

at least one photoinitiator which absorbs only in the UV range of the electromagnetic spectrum; and

an inorganic filler, at least a portion of which having a particle size in the range of 1 to 1,000 nm.

Claims 28-33. (Cancelled)